

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virgina 22313-1450 www.spile.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,051	04/27/2001	Sev K. H. Keil	24491-0007001	1476
26171 7590 099082009 FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS. MN 55440-1022			EXAMINER	
			LASTRA, DANIEL	
MINNEAPOL	18, MN 55440-1022		ART UNIT	PAPER NUMBER
			3688	
			NOTIFICATION DATE	DELIVERY MODE
			09/08/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Application No. Applicant(s) 09/845.051 KEIL ET AL. Office Action Summary Examiner Art Unit DANIEL LASTRA 3688 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 June 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)\(\times \) Claim(s) 1-7.9.10.13-17.19-22.27-33.39-45.47.48.51-55.57-60 and 65-71 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7.9.10.13-17.19-22.27-33.39-45.47.48.51-55.57-60 and 65-71 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner, Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Claims 1-7, 9-10, 13-17, 19-22, 27-33, 39-45, 47-48, 51-55, 57-60 and 65-71 have been examined. Application 09/845,051 (SYSTEM TO PROVIDE CONSUMER PREFERENCE INFORMATION) has a filing date 04/27/2001.

Response to Amendment

 In response to Final Rejection filed 10/23/2008, the Applicant filed an RCE on 02/23/2009, which amended claims 1-7, 9-10, 15-17, 22, 27-31, 39-45, 47-48, 53-55, 60, 65-69.

Claim Objections

3. Claims 39, 47 and 48 are objected to because of the following informalities: There is a typo error where it mentions that claim 39 is cancel. Claims 47 and 48 appear dependent from a cancel claim. For purpose of art rejection said claims are made dependent of claim 39. Appropriate correction is required.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7, 9-10, 13-17, 19-22, 27-33, 39-45, 47-48, 51-55, 57-60 and 65-71 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. With respect to claims 1-7, 9-10, 13-17, 19-22, 27-33 Based on Supreme Court precedent, a method/process claim must (1) be tied to a particular machine or apparatus (see at least Diamond v. Diehr. 450 U.S. 175, 184 (1981): Parker

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v. Flook, 437 U.S. 584, 588 n.9 (1978); Gottschalk v. Benson, 409 U.S. 63, 70 (1972); Cochrane v. Deener, 94 U.S. 780, 787-88 (1876)) or (2) transforms a particular article to a different state or thing (see at least Gottschalk v. Benson, 409 U.S. 63, 71 (1972)). A method/process claim that fails to meet one of the above requirements is not in compliance with the statutory requirements of 35 U.S.C. 101 for patent eligible subject matter. Here the claims fail to meet the above requirements because the steps are neither tied to a particular machine or apparatus nor transforms a particular article to a different state or thing. The Applicant needs to add structure to the embodiment of the claims. With respect to claims 39-45, 47-48, 51-55, 57-60 and 65-71, said claims are defined as computer product claims however, it is not clear that they are referring to a computer readable medium and that instructions stored in said medium are executed by a processor. For example, "computer readable medium comprising computer executable instructions that when executed on a processor performs the method".

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1, 22, 31, 39, 60 and 69 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Said claims recite an "adjustment factor". The Examiner is reading said limitation as simply adjusting a user's preference information based upon said user's answers to trade off questions and average value of a subgroup preference information.

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Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject

matter as a whole would have been obvious at the time the invention was made

to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was

made.

Claims 1-7, 9-10, 13-17, 19-22, 27-33, 39-45, 47-48, 51-55, 57-60 and 65-71 are

rejected under 35 U.S.C. 103(a) as being unpatentable over Johnston (US 6,826,541) in

view of Herz (US 6,029,195).

Claims 1, 22, 39 and 60, Johnston teaches:

A computer-implemented method for calculating adjusted preference information.

comprising:

storing, for a plurality of consumers, preference information related to different

attributes of a type of product, the stored preference information for an individual

consumer including numerical values that are reflective of the individual consumer's

preference for different attribute levels for the attributes of the type of product (see col

10, lines 30-67), and the plurality of consumers including a first consumer, a second

consumer, and other consumers (see col 21, lines 15-30);

dividing the plurality of consumers into multiple different sub-groups that include

less than all of the plurality of consumers (see col 21, lines 20-30);

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based on the preference information stored for the first consumer, generating a first set of trade-off questions to the first consumer that solicit answers from the first consumer regarding choices between different attribute levels for attributes of the type of product; providing the first set of trade-off questions to the first consumer (see col 10, lines 30-67); predicting the first consumer's answers to the first set of trade-off questions (see col 24, lines 1-20);

receiving answers to the first set of trade-off questions from the first consumer (see col 24, lines 35-67); selecting, from among the multiple sub-groups of consumers, a first sub-group of consumers as a match for the first consumer, the selection of the first sub-group of consumers being based on preference information for the first consumer and preference information for constituent members of the first sub-group of consumers (see col 21, lines 15-30);

based on the first consumer's received answers to the first set of trade-off questions and the predicted answers to the first set of trade-off questions for the first consumer, determining a first adjustment factor for use in adjusting the stored value that is reflective of the first consumer's preference for the at least one attribute level (see col 25, lines 1-30 "profile would be database");

based on the preference information stored for the second consumer, generating a second set of trade-off questions for the second consumer that solicit answers from the second consumer regarding choices between different attribute levels for attributes of the type of product (see col 13, lines 10-40; col 27, lines 55-61 "multiple clients");

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providing the second set of trade-off questions to the second consumer (see col 13, lines 10-40); predicting the second consumer's answers to the second set of trade-off questions (see col 25, lines 1-30); receiving answers to the second set of trade-off questions from the second consumer (see col 13, lines 1-50); selecting, from among the multiple sub-groups of consumers, a second sub-group of consumers as a match for the second consumer, the selection of the second sub-group of consumers being based on preference information for the second consumer and preference information for constituent members of the second sub-group of consumers (see col 21, lines 20-30);

based on the second consumer's received answers to the second set of trade-off questions and the predicted answers to the second set of trade-off questions for the second consumer, determining a second adjustment factor for use in adjusting the stored value that is reflective of the second consumer's preference for the at least one attribute level, wherein the second adjustment factor is different than the first adjustment factor (See col 25, lines 1-30 "detailed profile would be database"; and

Johnston fails to teach:

for at least one attribute level of a particular attribute of the type of product, calculating an average value of the first sub-group's preference for the at least one attribute level based on the stored values that are reflective of the first sub-group's constituent members' preferences for the at least one attribute level; adjusting the stored value that is reflective of the first consumer's preference for the at least one attribute level as a function of the determined first adjustment factor and the average value of the first sub-group's preference for the at least one attribute level: for the at

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least one attribute level, calculating an average value of the second sub-group's preference for the at least one attribute level based on the stored values that are reflective of the second sub-group's constituent members' preferences for the at least one attribute level; adjusting the stored value that is reflective of the second consumer's preference for the at least one attribute level as a function of the determined second adjustment factor and the average value of the second sub-group's preference for the at least one attribute level. However, Herz teaches a system that calculates a particular user's profile by dividing a group of users (i.e. target objects) into subgroups (i.e. clusters) (see col 28, lines 1-20), in such a way that similar users tend to be grouped in the same subgroup (see col 23, lines 60-67), calculating the average of the subgroup profile (see col 24, lines 15-25) and using said average to update the particular user's profile in order to predict that said particular user preference would resemble the known preferences of other users with similar profile (see col 28, lines 1-67). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that Johnston would modify his invention to update a particular consumer profile using the average profile a subgroup of users, as taught by Herz in order to predict that a particular user profile would resemble the known interests of other users with similar profiles.

Claims 2 and 40, Johnston teaches:

wherein the preference information for the plurality of consumers includes normalized part worth values (see col 17, lines 40-50).

Claims 3 and 41. Johnston teaches:

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wherein the preference for the plurality of consumers includes currency-normalized part worth values (see col 17. lines 22-50).

Claims 4, 27, 42 and 65, Johnston teaches:

wherein selecting the first sub-group of consumers includes selecting the first sub-group of consumers based on attribute levels identified as unacceptable by constituent members of the first sub-group of consumers (see col 21, lines 15-30).

Claims 5, 28, 43 and 66, Johnston teaches:

wherein the constituent members of the first sub-group of consumers identified similar attribute levels as unacceptable (see col 21, lines 15-30).

Claims 6, 29, 44 and 67, Johnston teaches:

wherein selecting the first sub-group of consumers includes selecting the first sub-group of consumers based on part worth values stored for constituent members of the first sub-group of consumers (see col 21, lines 15-30).

Claims 7, 30, 45 and 68, Johnston teaches:

wherein the constituent members of the first sub-group of consumers are associated with similar preference information (see col 21, lines 15-30).

claims 9 and 47, Johnston teaches:

wherein dividing the plurality of consumers into sub-groups includes assigning consumers to sub-groups based on attribute levels that the consumers indicated as unacceptable (see col 21, lines 15-30).

Claims 10 and 48, Johnston teaches:

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wherein dividing the plurality of consumers into sub-groups includes assigning consumers to sub-groups based on part worth values associated with the consumers (See col 21, lines 15-30).

claims 13 and 51. Johnston teaches:

determining an offer to sell a product based on the mixed preference information (see col 2, lines 50-60).

claims 14 and 52, Johnston teaches:

providing the offer to the consumer (see col 2, lines 50-60).

claims 15 and 53, Johnston teaches:

wherein the first sub-group of consumers is identical to the second sub-group of consumers (see col 21, lines 15-30 "members of an union").

claims 16 and 54, Johnston teaches:

wherein the first sub-group of consumers does not include any consumers belonging to the second sub-group of consumers (see col 21, lines 15-31 "members of union APWU and Postal workers").

claims 17 and 55, Johnston teaches:

wherein one or more of the constituent members of the first sub-group of consumers are members of the second sub-group of consumers (see col 21, lines 40-55 "same zip code").

claims 19 and 57. Johnston teaches:

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wherein the plurality of consumers comprises a predetermined number of past consumers for whom preference information is stored (see col 25, lines 5-15 "detailed profile would be databased").

Claims 20 and 58. Johnston teaches:

wherein the predetermined number of past consumers are determined based on a time at which preference information associated with each of the predetermined number of consumers was collected (see col 25, lines 15-30 "baby boomers").

Claims 21 and 59, Johnston teaches:

wherein the plurality of consumers comprises all past consumers for whom preference information was collected during a particular time period (see col 25, lines 15-30).

Claims 31 and 69, Johnston teaches:

A computer-implemented method for calculating adjusted consumer preference information, comprising:

receiving, for a plurality of consumers, preference information related to different attributes of a product, the received preference information for an individual consumer including numerical values that are reflective of the individual consumer's preference for different attribute levels for the attributes of the type of product, and the plurality of consumers including a particular consumer and other consumers (see col 10, lines 30-67);

currency-normalizing the received preference information for the plurality of consumers (see col 17, lines 20-67); storing the currency-normalized preference information for the plurality of consumers (see col 17, lines 20-67);

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dividing the plurality of consumers into multiple different sub-groups that include less than all of the plurality of consumers (see col 21, lines 15-30);

based on the currency-normalized preference information stored for the particular consumer, generating a set of trade-off questions for the particular consumer that solicit answers from the particular consumer regarding choices between different attribute levels for attributes of the type of product (see col 24, lines 20-50); providing the set of trade-off questions to the particular consumer; predicting the particular consumer's answers to the set of trade-off questions; receiving answers to the set of trade-off questions from the particular consumer (see col 24, lines 1-20); selecting, from among the multiple sub-groups of consumers, a particular sub-group of consumers as a match for the particular consumer, the selection of the particular subgroup of consumers being based on currency-normalized preference information for the particular consumer and currency-normalized preference information for constituent members of the particular sub-group of consumers (see col 21, lines 15-35); based on the particular consumer's received answers to the set of trade-off questions and the predicted answers to the set of trade-off questions for the particular consumer, determining an adjustment factor for use in adjusting the currency-normalized stored value that is reflective of the particular consumer's currency-normalized preference for the at least one attribute level (see col 25, lines 1-30)

Johnston does not teach:

for at least one attribute level of a particular attribute of the type of product, calculating an average value of the particular sub-group's currency-normalized Art Unit: 3688

preference for the at least one attribute level based on the stored currency-normalized values that are reflective of the particular sub-group's constituent members' currencynormalized preferences for the at least one attribute level: adjusting the stored currency-normalized value that is reflective of the particular consumer's currency-normalized preference for the at least one attribute level as a function of the determined adjustment factor and the average value of the particular sub-group's currency- normalized preference for the at least one attribute level. However, Herz teaches a system that calculates a particular user's profile by dividing a group of users (i.e. target objects) into subgroups (i.e. clusters) (see col 28, lines 1-20), in such a way that similar users tend to be grouped in the same subgroup (see col 23, lines 60-67), calculating the average of the subgroup profile (see col 24, lines 15-25) and using said average to update the particular user's profile in order to predict that said particular user preference would resemble the known preferences of other users with similar profile (see col 28, lines 1-67). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the application was made, to know that Johnston would modify his invention to update a particular consumer profile using the average profile a subgroup of users, as taught by Herz in order to predict that a particular user profile would resemble the known interests of other users with similar profiles.

Claims 32 and 70, Johnston teaches:

providing an offer based on the currency-normalized information (see col 17, lines 20-65).

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claims 33 and 71, Johnston teaches:

providing the offer to the consumer (see col 2, lines 55-60).

Response to Arguments

7. Applicant's arguments with respect to the claims have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DANIEL LASTRA whose telephone number is 571-272-

6720 and fax 571-273-6720. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ROBERT A WEINHARDT can be reached on (571)272-6633. The

supervisor, ROBERT A WEINHARDT can be reached on (371)272-0033. The

official Fax number is (571) 273-8300.

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/DANIEL LASTRA/ Examiner, Art Unit 3688 August 29, 2009